

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
24 December 2003 (24.12.2003)

PCT

(10) International Publication Number
WO 2003/107603 A3

(51) International Patent Classification⁷: **H04L 12/56**

GmbH, Weiss hausstr. 2, 52066 Aachen (DE). MAAB, Henning [DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weiss hausstr. 2, 52066 Aachen (DE).

(21) International Application Number:
PCT/IB2003/002206

(74) Agent: MEYER, Michael; Philips Intellectual Property & Standards GmbH, Weiss hausstr. 2, 52066 Aachen (DE).

(22) International Filing Date: 10 June 2003 (10.06.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CY, CZ, DK, DM, DZ, EC, EE, ES, FI, FR, GB, GD, GE, GH, GM, GR, GM, HR, HU, ID, IE, IL, IN, IS, IT, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SE, SG, SK, SL, SZ, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW only): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CY, CZ, DK, DM, DZ, EC, EE, ES, FI, FR, GB, GD, GE, GH, GM, GR, GM, HR, HU, ID, IE, IL, IN, IS, IT, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SZ, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
102 26 304.3 13 June 2002 (13.06.2002) DE

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for DE only): **PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH** [DE/DE]; Stein-damm 94, 20099 Hamburg (DE).

Published:

— with international search report

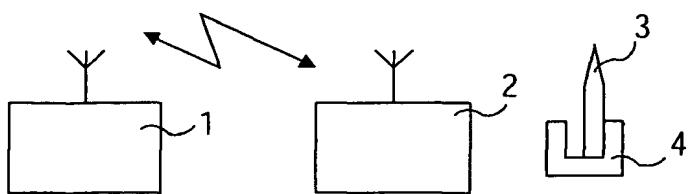
(71) Applicant (for AE, AG, AL, AM, AT, AU, AZ, BA, BB, BE, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CY, CZ, DK, DM, DZ, EC, EE, ES, FI, FR, GB, GD, GE, GH, GM, GR, HR, HU, ID, IE, IL, IN, IS, IT, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MC, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SZ, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW only): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoud-seweg 1, NL-5621 BA Eindhoven (NL).

(88) Date of publication of the international search report: 29 April 2004

(72) Inventors; and
(75) Inventors/Applicants (for US only): **FALCK, Thomas** [DE/DE]; c/o Philips Intellectual Property & Standards

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TOKEN-CONTROLLED FORMATION OF WIRELESS WORK GROUPS



At least one communication apparatus is used as a token read apparatus (4, 13 and 14) so as to read the apparatus address of a first communication apparatus (1), stored in the token (3, 9 to 12, 15). The token read apparatus (4, 13 and 14) builds up a connection with the first communication apparatus (1) by means of the apparatus address, and/or the apparatus address is transmitted by the token read apparatus (4, 13 and 14) to at least a second communication apparatus (2). The second communication apparatus (2) can then build up a connection with the first communication apparatus (1).

(57) Abstract: The invention relates to a method of operating a network of a plurality of communication apparatuses (1, 2, 5 to 8) and particularly to a method of operating an ad hoc network between Bluetooth apparatuses. A token (3, 9 to 12, 15), in which the apparatus address of the associated apparatus is stored, is assigned to a plurality of communication apparatuses (1, 2, 5 to 8).

WO 2003/107603 A3

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB 03/02206

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L12/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, IBM-TDB, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P	HALL E S ET AL: "RF Rendez-blue: reducing power and inquiry costs in bluetooth-enabled mobile systems" IEEE, 14 October 2002 (2002-10-14), pages 640-645, XP010610952 A page 644, left-hand column, line 27 -page 644, right-hand column, line 6; figure 5 ---	1-4
A	EP 1 278 312 A (MITSUBISHI ELECTRIC CORP) 22 January 2003 (2003-01-22) paragraph '0013! - paragraph '0016! paragraph '0031! - paragraph '0039! ---	5-14
X, P		1-4

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

4 February 2004

Date of mailing of the international search report

11/02/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel: (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Poort, I

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 03/02206

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 1278312	A 22-01-2003	WO 02075962 A1 EP 1278312 A1 US 2003092389 A1		26-09-2002 22-01-2003 15-05-2003